

FIG. 1

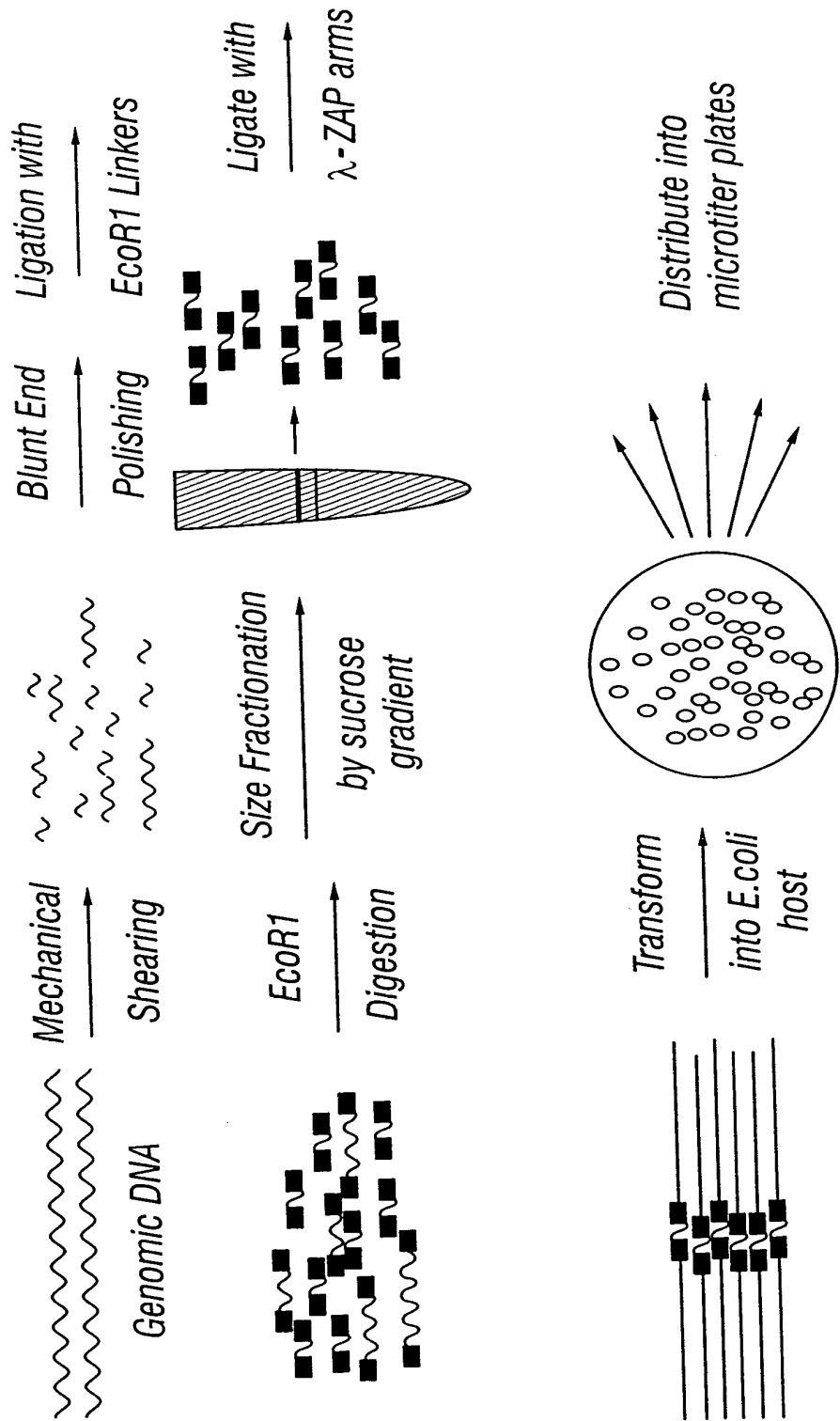


FIG. 2

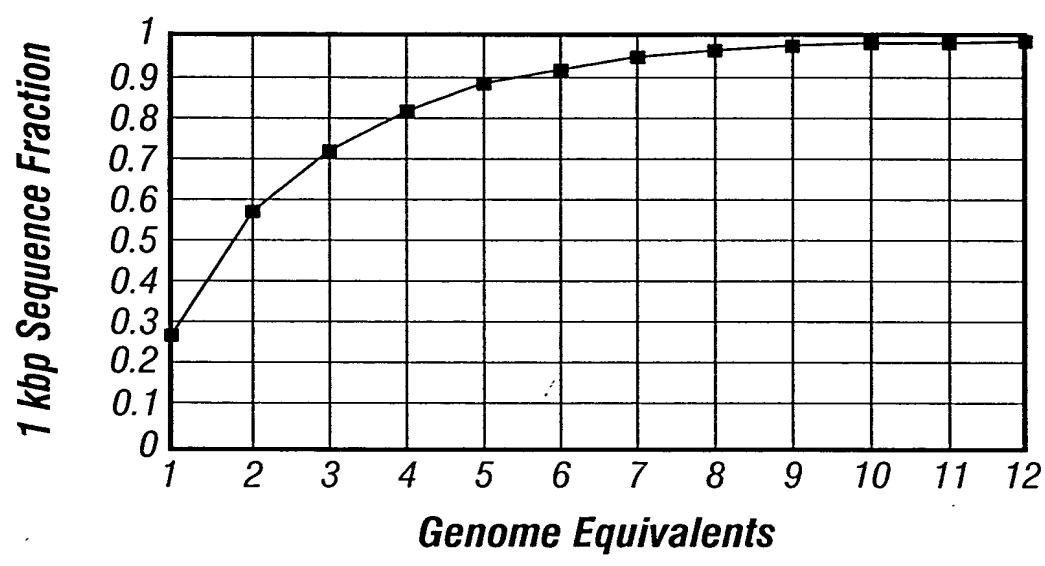


FIG. 3

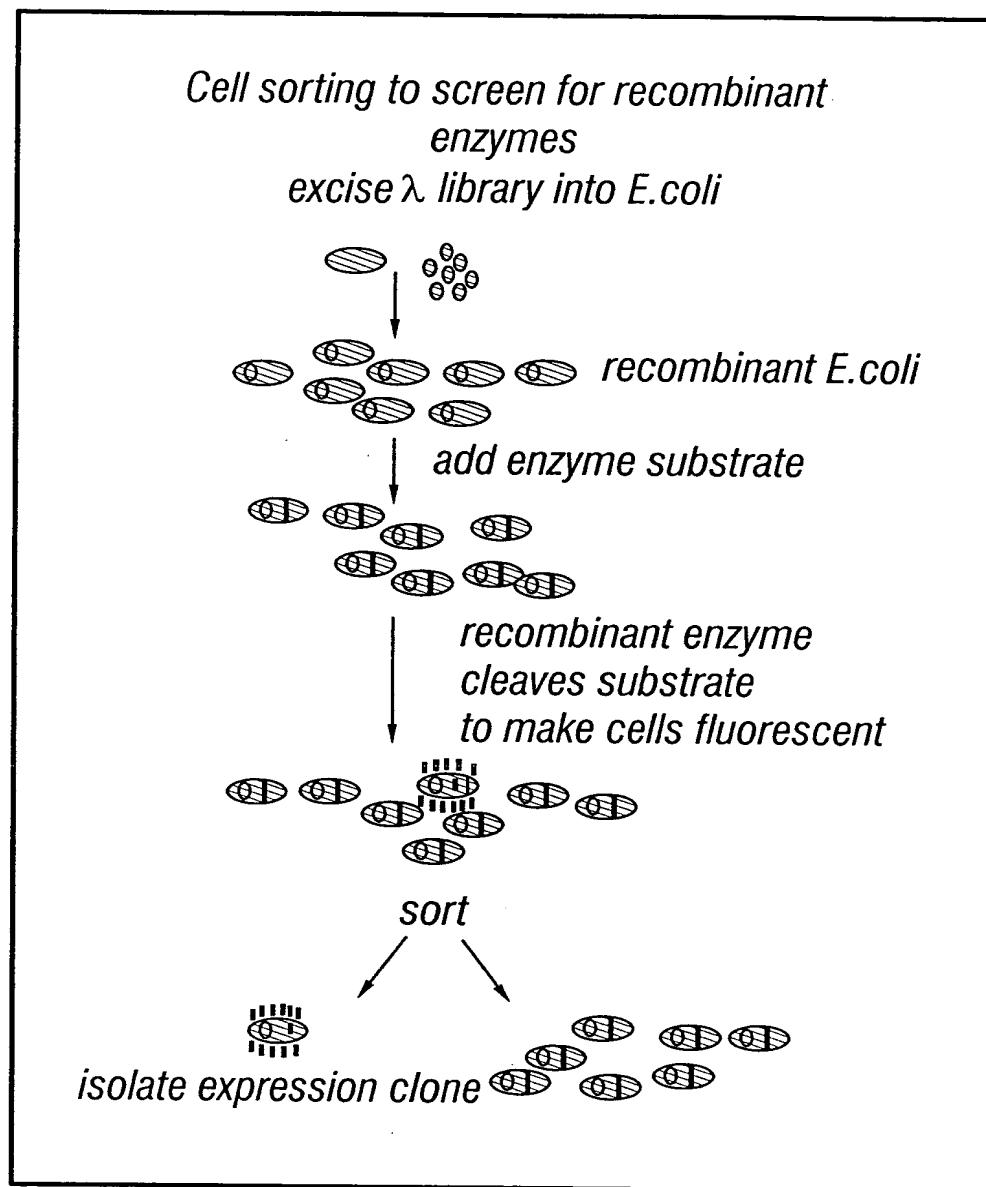


FIG. 4

β-Gal clone with different substrates

- *cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.*
- *bright spot indicates staining of cells*

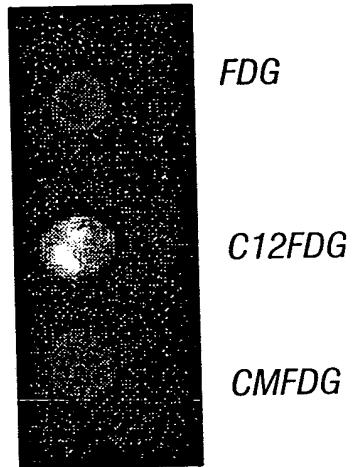


FIG. 5

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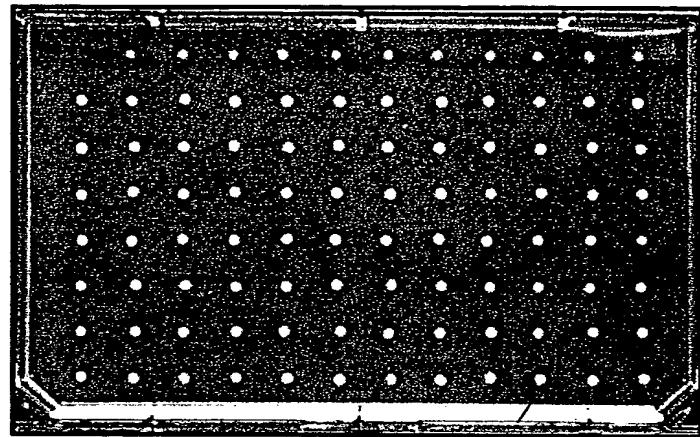


FIG. 6

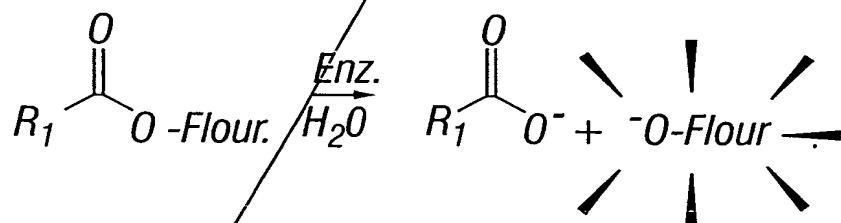
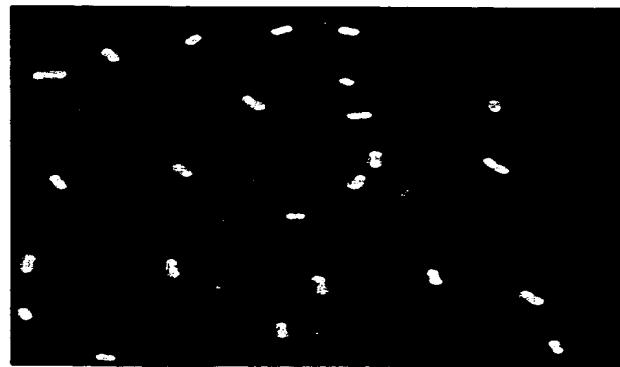


FIG. 7



Page A

FIG. 8

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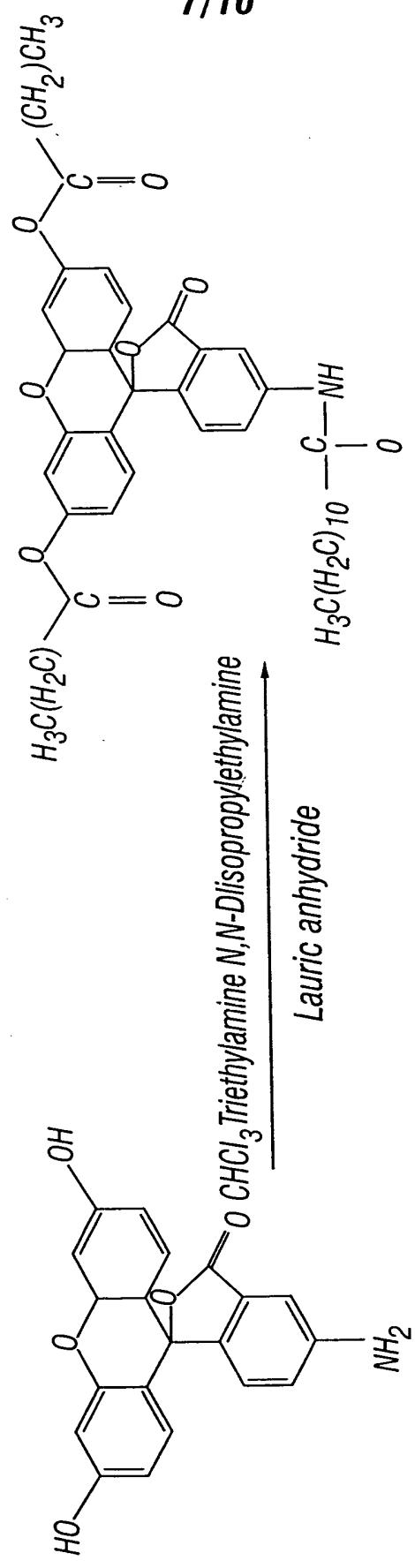


FIG. 9

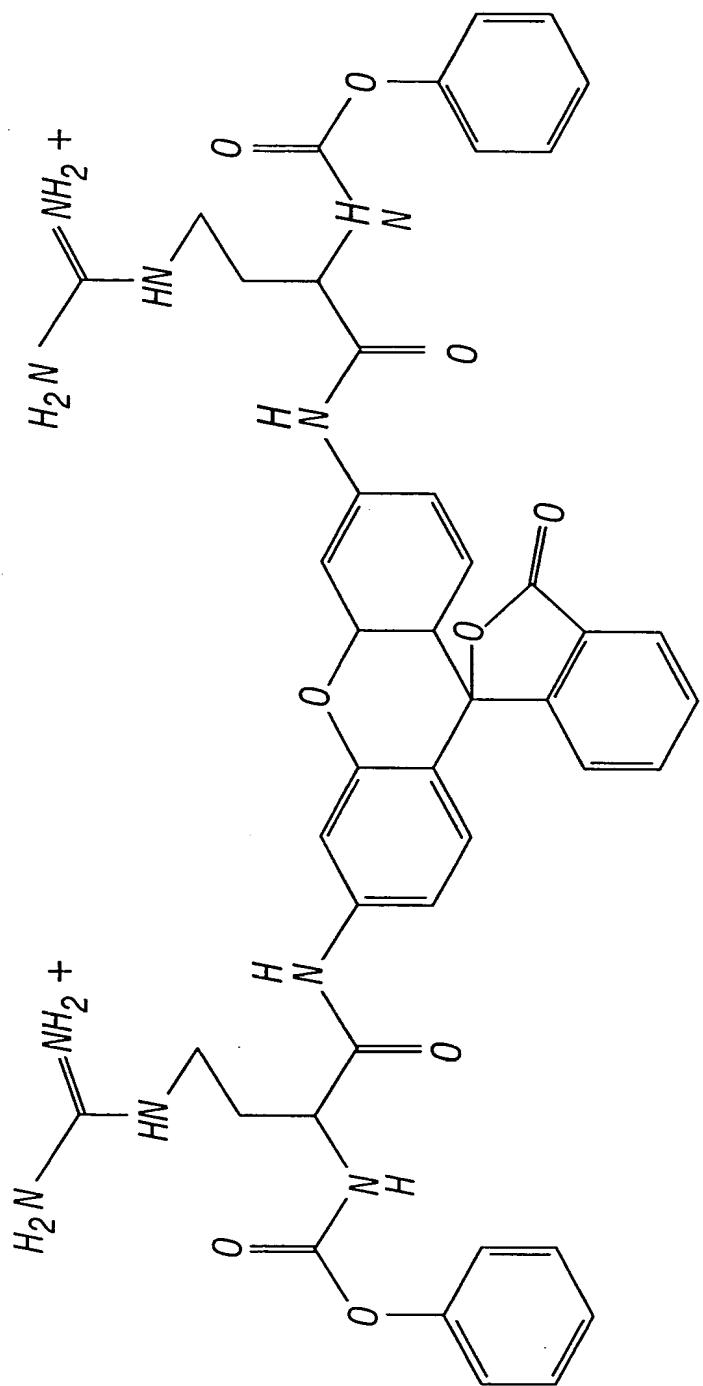


FIG. 10

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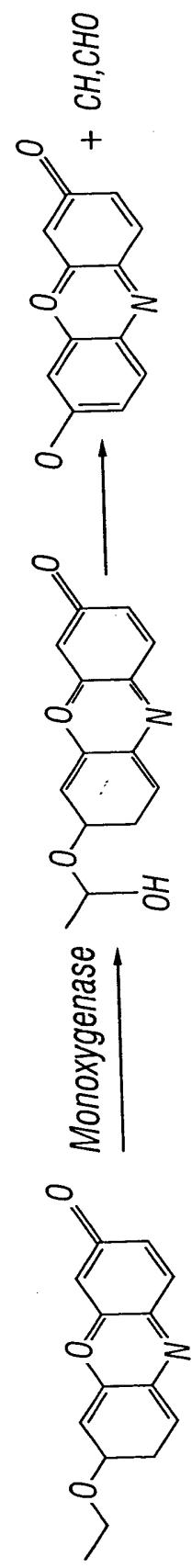


FIG. 11

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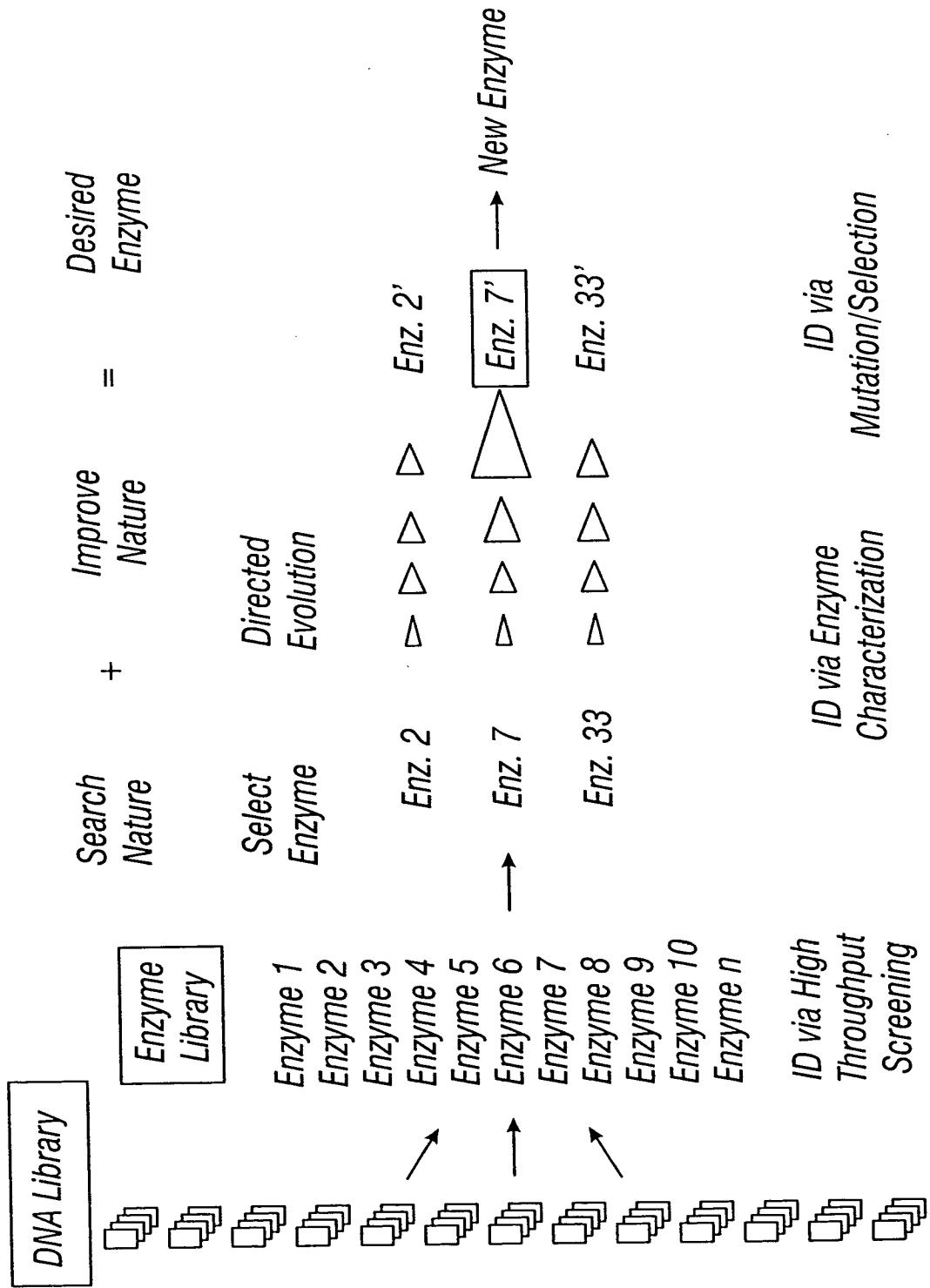


FIG. 12

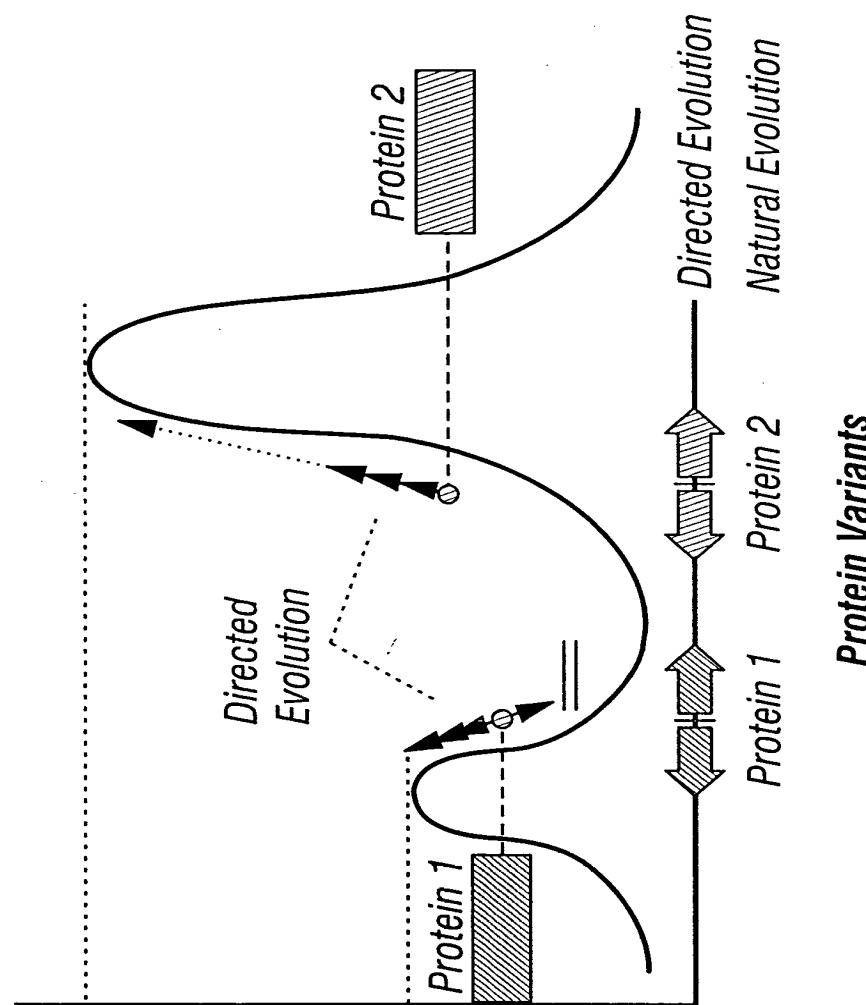
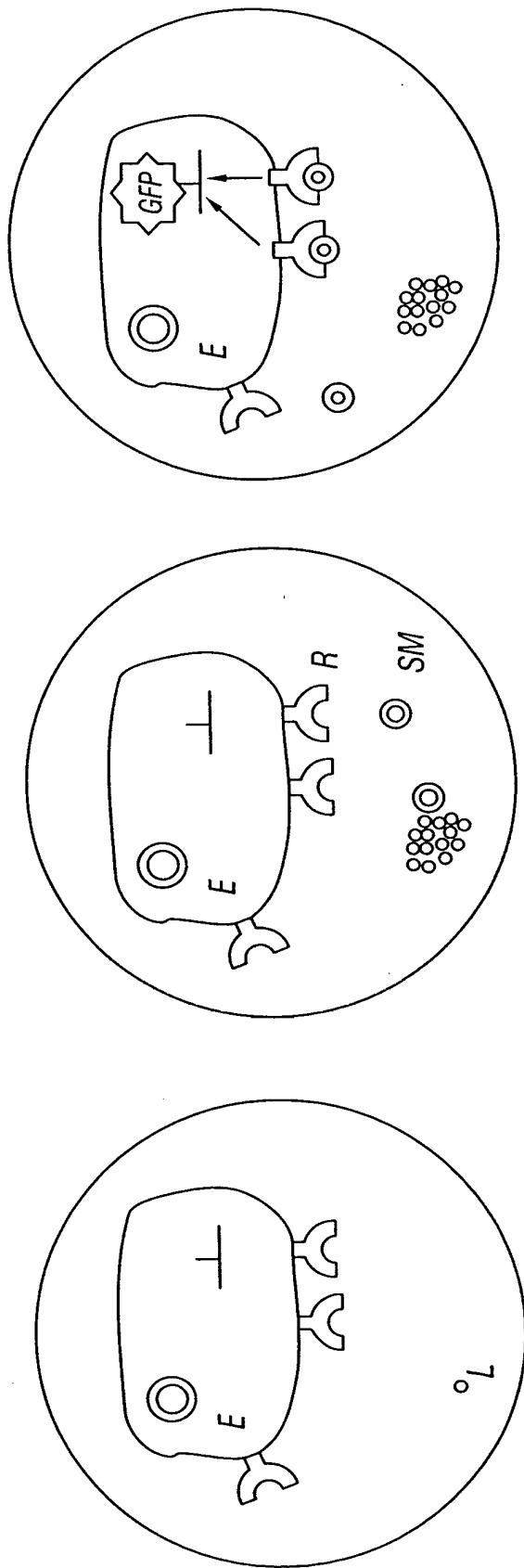


FIG. 13

- *T* Stability
- Solvent Stability
- Expression Level
- Enzyme Activity
- Buffer Compatibility
- Process Compatibility



*Co-encapsulation
Library + Eukaryote*

*Growth and expression
of small molecule from host*

*Receptor binding of small
molecule & GFP reporting*

*E = Eukaryotic assay organism L = Large insert library
GFP = Green fluorescent protein R = Eukaryotic receptor
SM = Small molecule*

FIG. 14

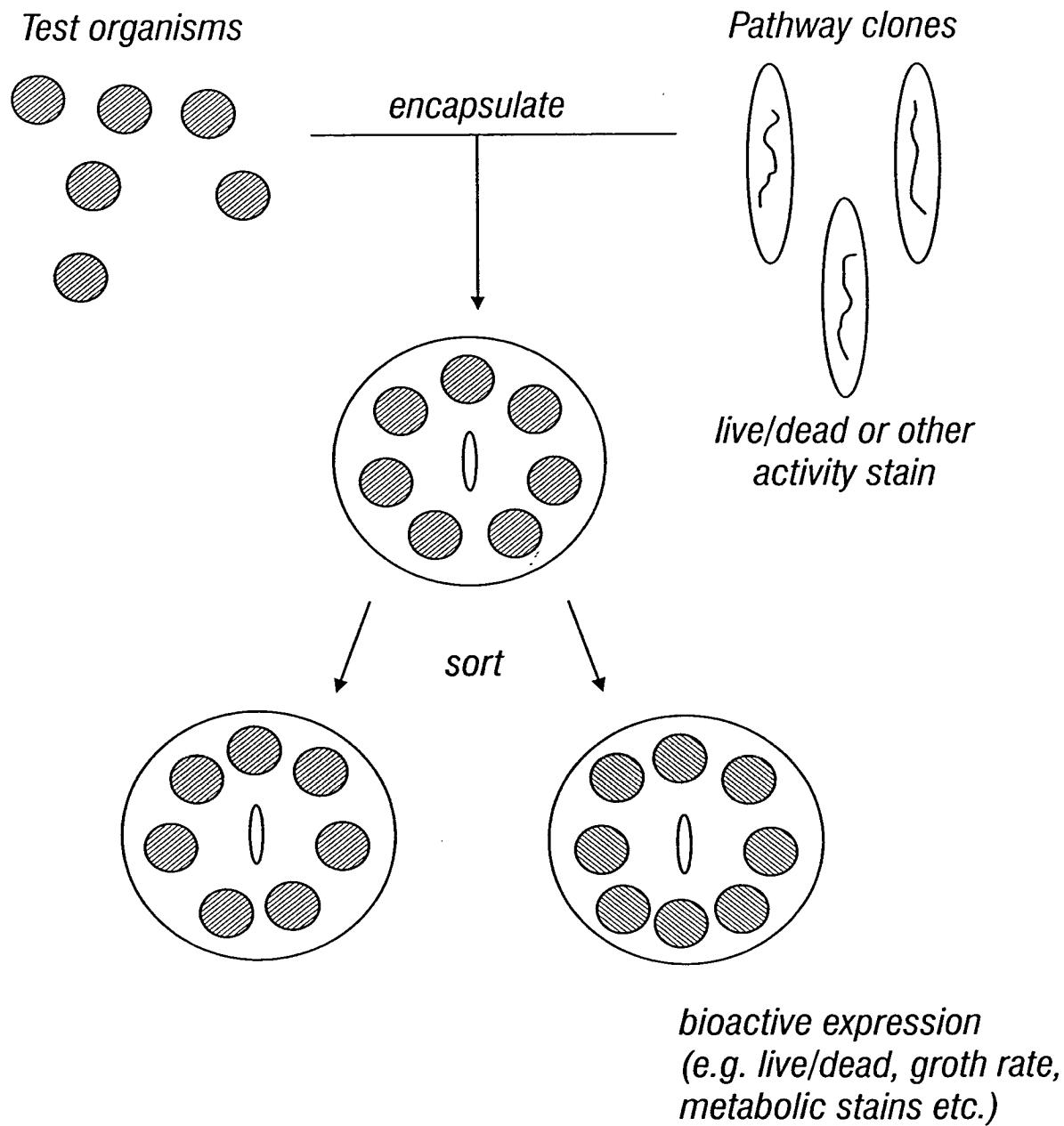
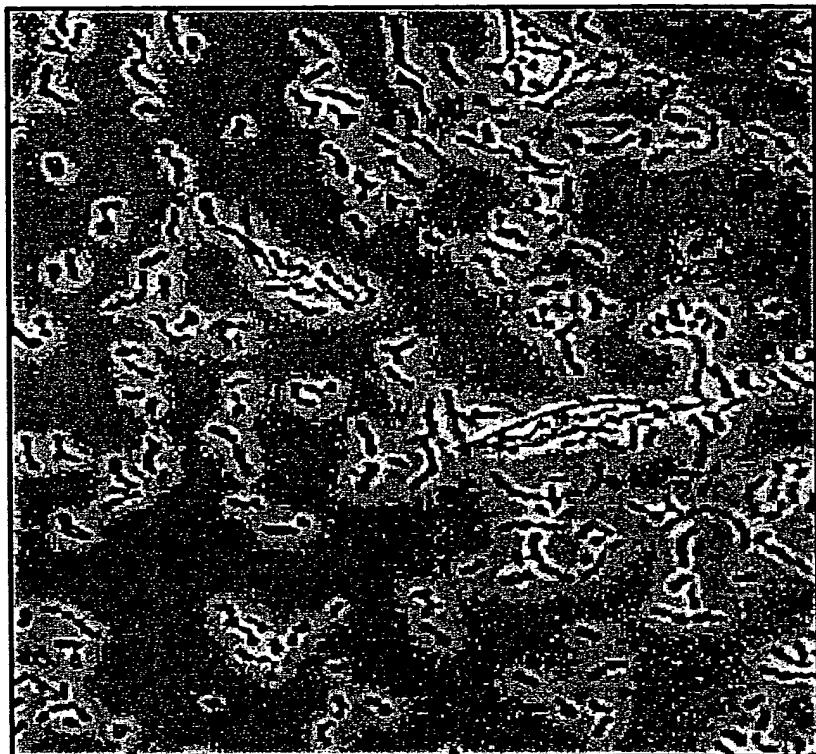
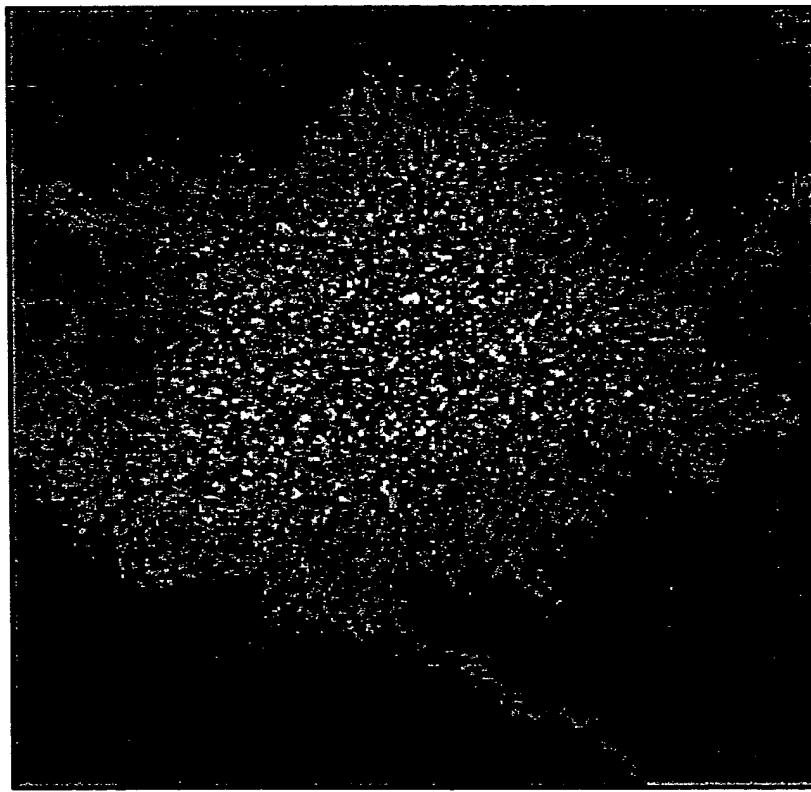


FIG. 15

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Streptomyces "diversa"
Unicells



Streptomyces lividans
mycelia

FIG. 16

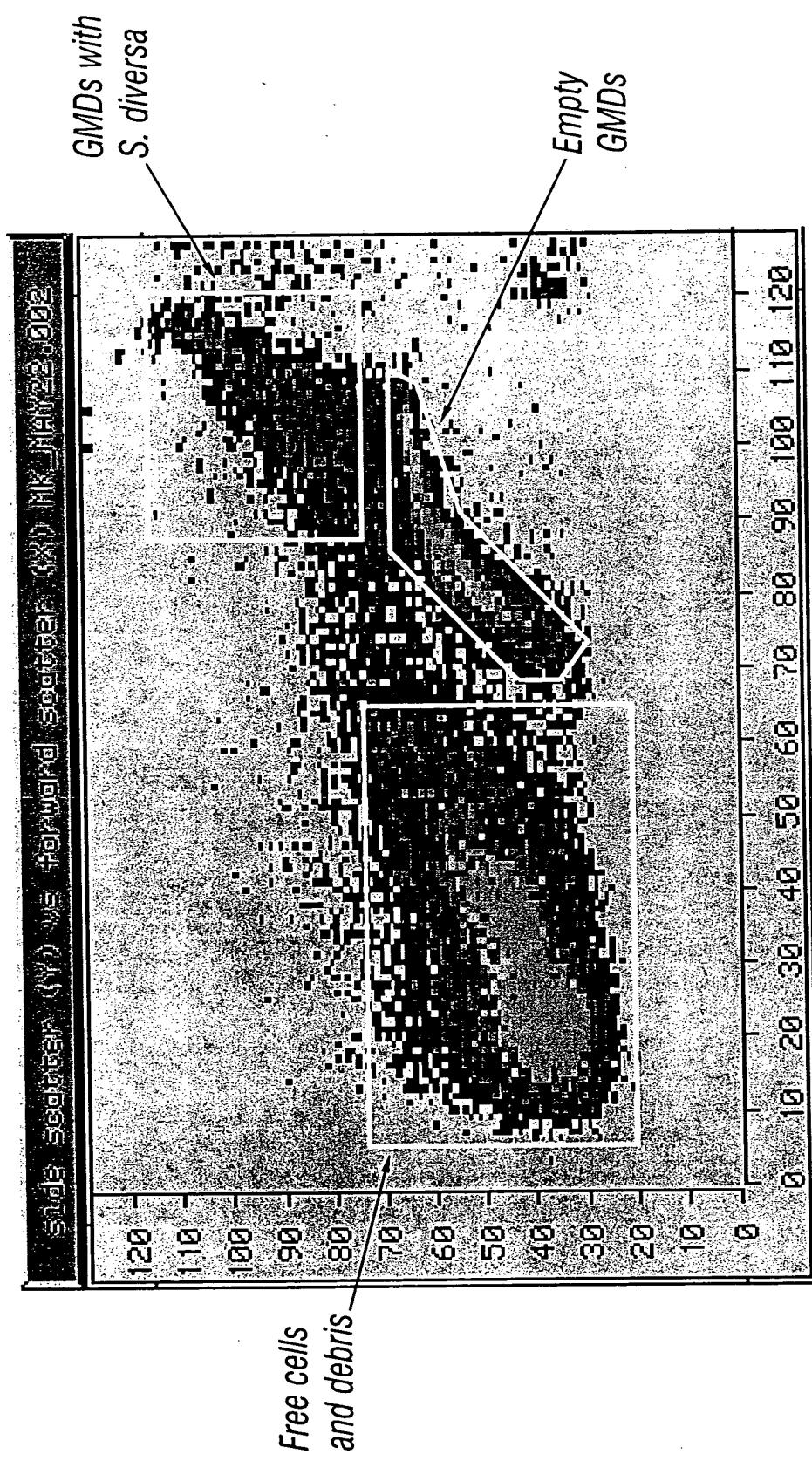


FIG. 17

100 000 000 000 000 000 000 000 000

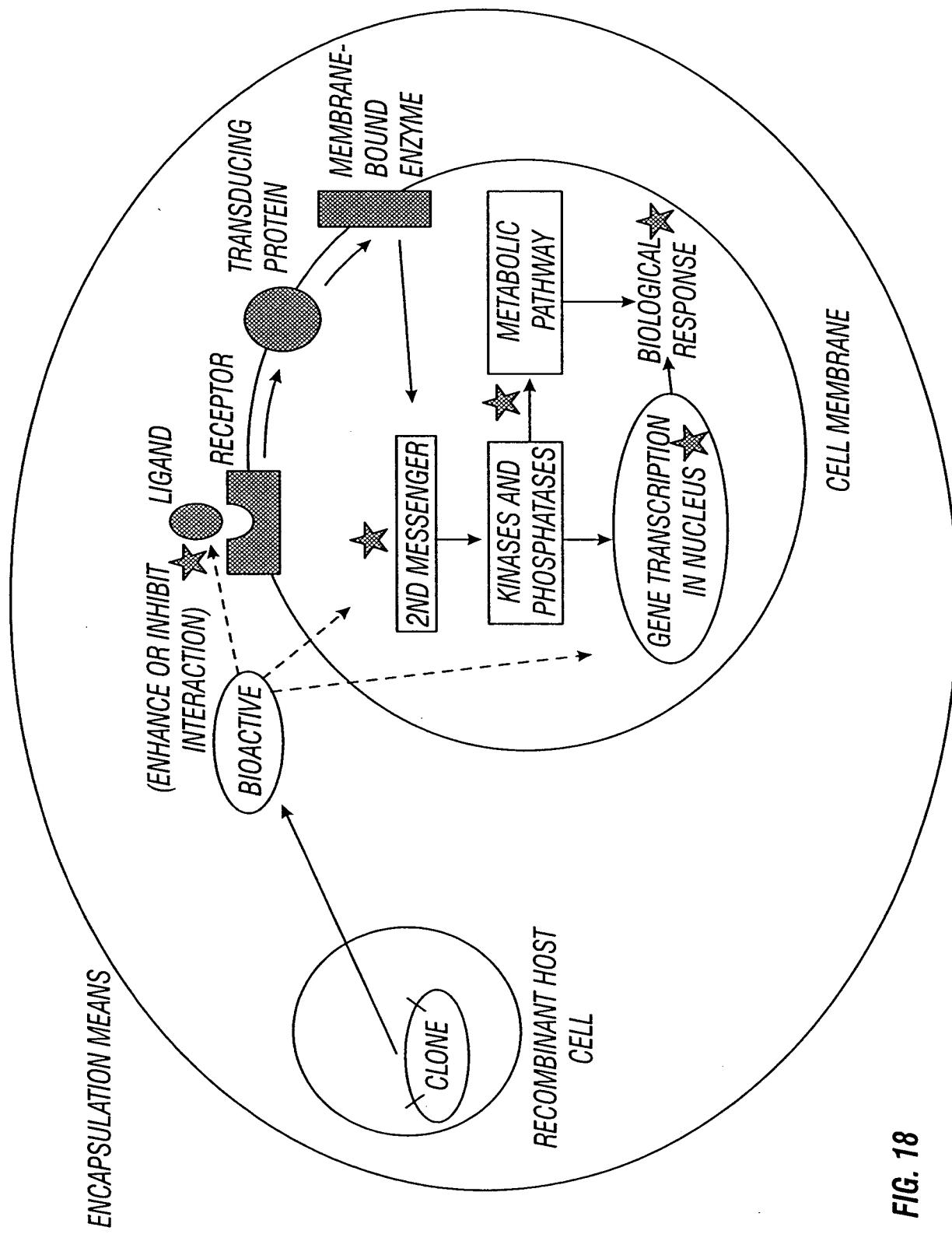


FIG. 18